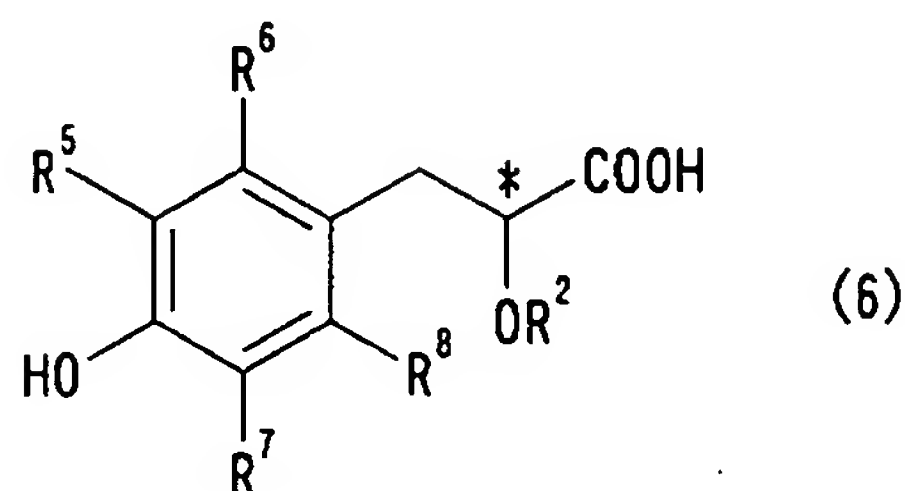
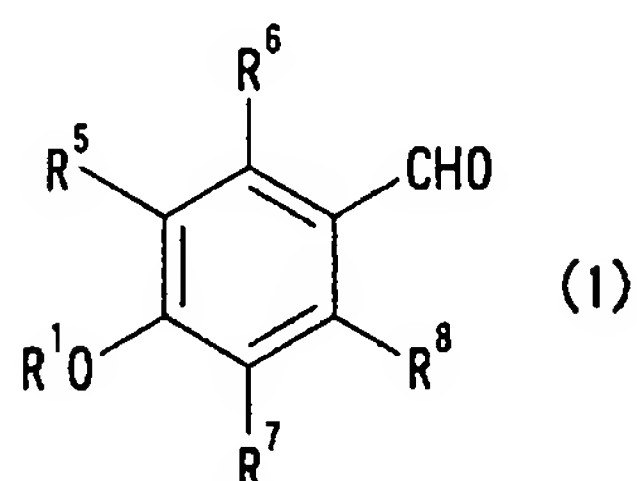


### Amendments to the Claims

**1. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



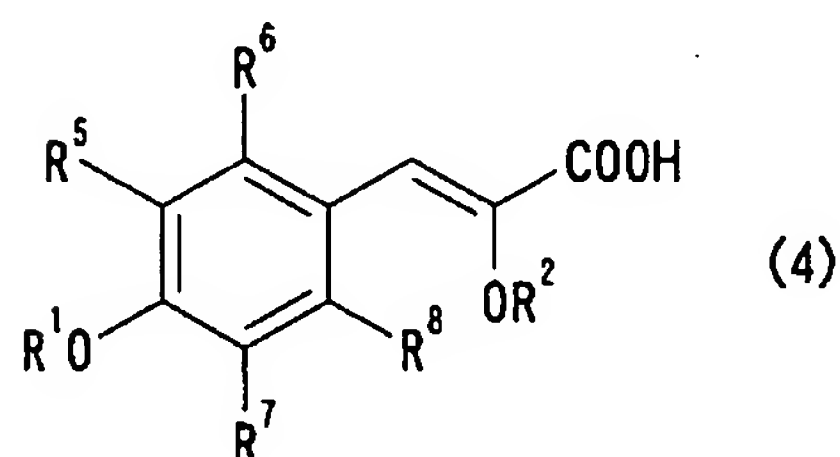
wherein R<sup>2</sup> is an alkyl group, R<sup>5</sup> to R<sup>8</sup> are each independently a hydrogen atom or a substituent;  
and the symbol \* is a chiral carbon atom,  
or a salt thereof, which comprises reacting a benzaldehyde of the formula (1):



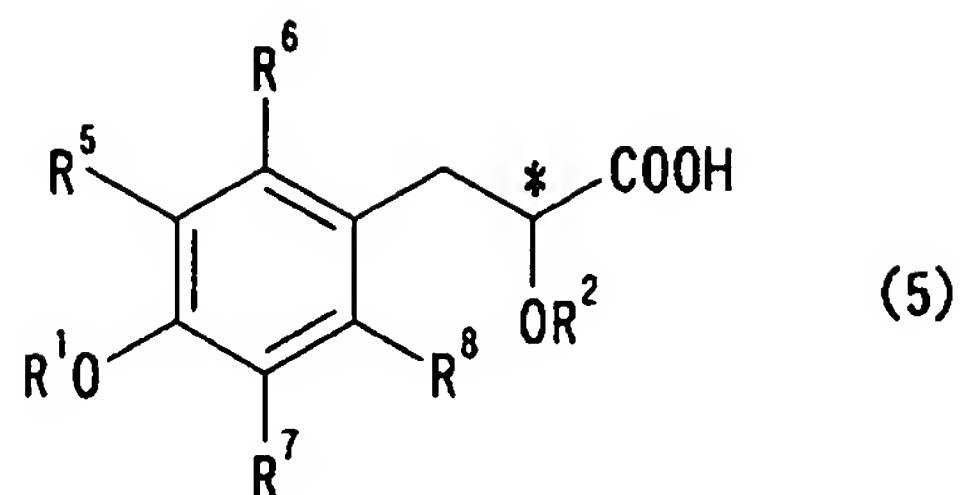
wherein R<sup>1</sup> is a protective group; and R<sup>5</sup> to R<sup>8</sup> are each the same as defined above,  
with a glycolic acid derivative of the formula (2):



wherein R<sup>3</sup> is a hydrocarbon group, and R<sup>2</sup> is the same as defined above,  
hydrolyzing the resulting product to give a cinnamic acid of the formula (4):

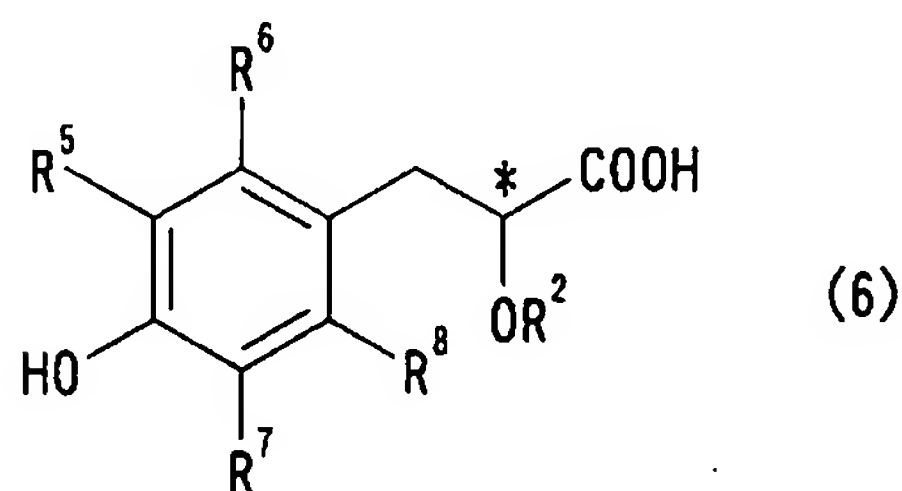


wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>5</sup> to R<sup>8</sup> are each the same as defined above,  
or a salt thereof, and subjecting the cinnamic acid (4) or a salt thereof to asymmetric  
hydrogenation to give an optically active phenylpropionic acid of the formula (5):

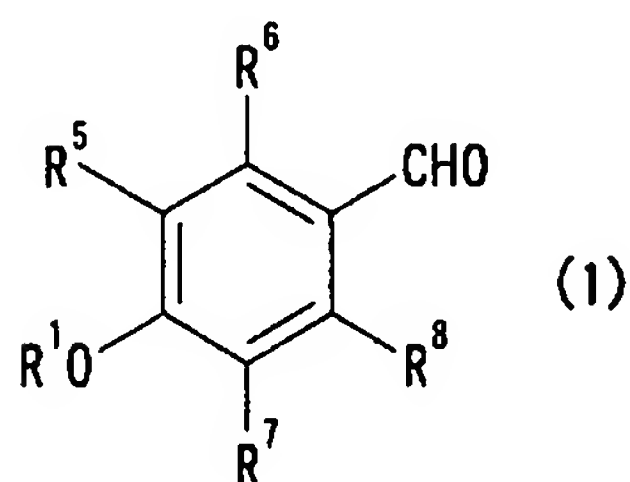


wherein all the symbols are each the same as defined above,  
or a salt thereof, followed by deprotection.

**2. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



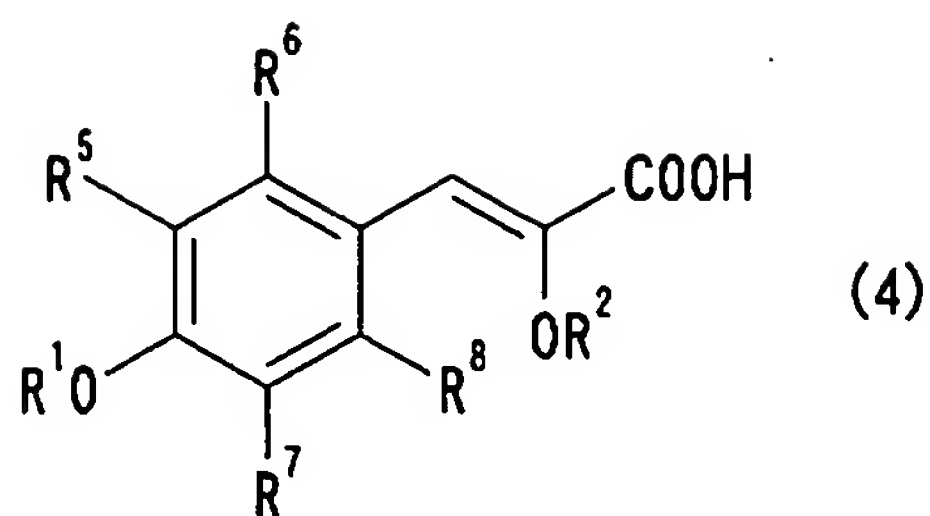
wherein  $R^2$  is an alkyl group;  $R^5$  to  $R^8$  are each independently a hydrogen atom or a substituent;  
and the symbol \* is a chiral carbon atom,  
or a salt thereof, which comprises reacting a benzaldehyde of the formula (1):



wherein  $R^1$  is a protective group; and  $R^5$  to  $R^8$  are each the same as defined above,  
with a glycolic acid derivative of the formula (2):

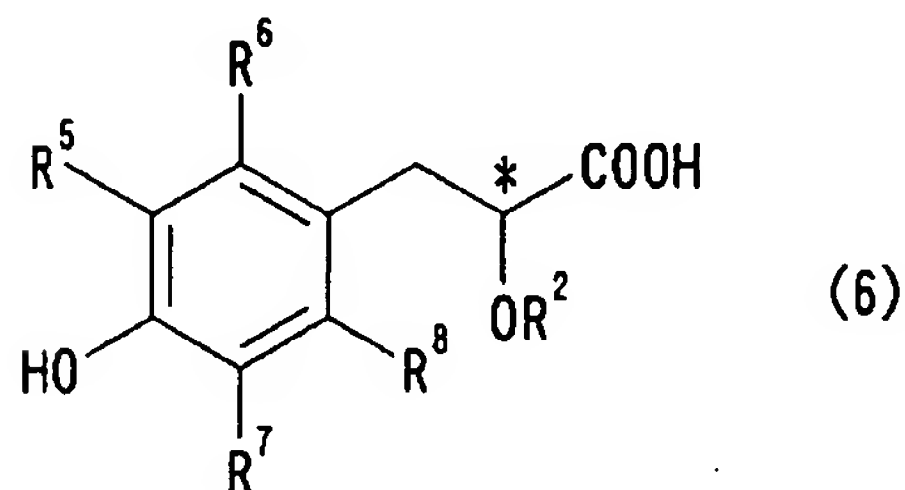


wherein  $R^3$  is a hydrocarbon group, and  $R^2$  is the same as defined above, followed by hydrolysis  
to give a cinnamic acid of the formula (4):

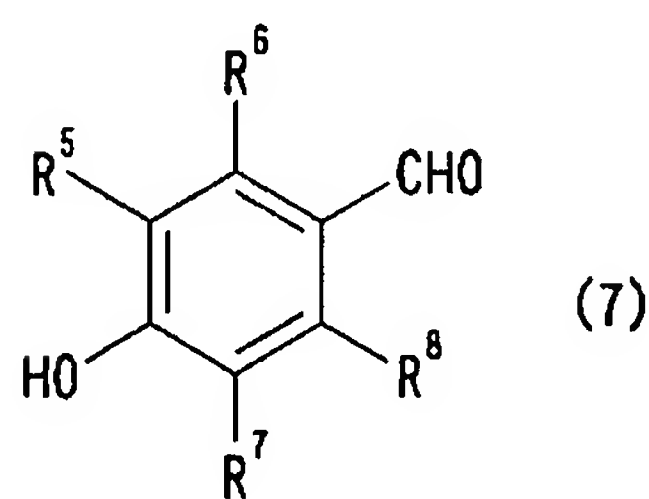


wherein  $R^1$ ,  $R^2$ , and  $R^5$  to  $R^8$  are each the same as defined above,  
or a salt thereof, and subjecting the cinnamic acid (4) or a salt thereof to asymmetric  
hydrogenation.

**3. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of  
the formula (6):



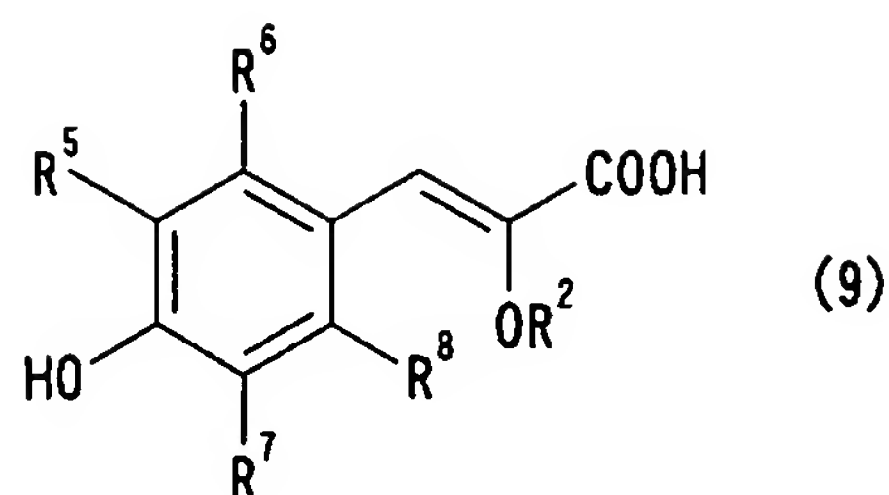
wherein  $R^2$  is an alkyl group;  $R^5$  to  $R^8$  are each independently a hydrogen atom or a substituent;  
and the symbol \* is a chiral carbon atom,  
or a salt thereof, which comprises reacting a 4-hydroxybenzaldehyde of the formula (7):



wherein  $R^5$  to  $R^8$  are each the same as defined above,  
with a glycolic acid derivative of the formula (2):



wherein  $R^3$  is a hydrocarbon group; and  $R^2$  is the same as defined above, followed by hydrolysis  
to give a 4-hydroxycinnamic acid of the formula (9):



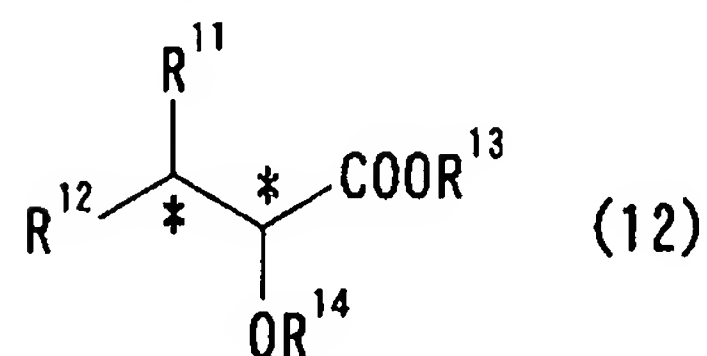
wherein  $R^2$ , and  $R^5$  to  $R^8$  are each the same as defined above,  
or a salt thereof, and subjecting the 4-hydroxycinnamic acid (9) or a salt thereof to asymmetric hydrogenation.

**4. (Currently amended)** The process according to ~~any one of claims 1 to 3~~ claim 1, wherein the asymmetric hydrogenation is carried out in the presence of a chiral catalyst.

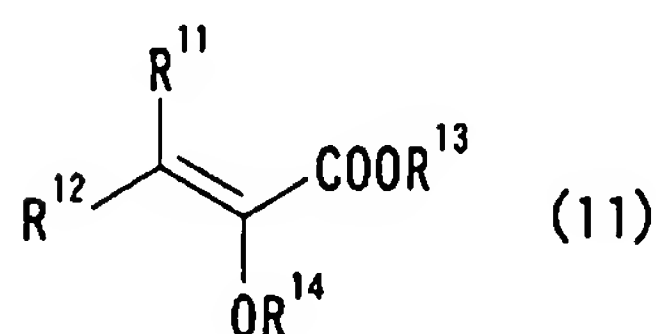
**5. (Currently amended)** The process according to ~~any one of claims 1 to 4~~ claim 1, wherein the chiral catalyst is a transition metal complex.

**6. (Original)** The process according to claim 5, wherein the transition metal complex is a complex of the metal of Groups 8 to 10 in the periodic table.

**7. (Original)** A process for producing an optically active carboxylic acid of the formula (12):



wherein  $R^{11}$  and  $R^{12}$  are each independently a hydrogen atom or a substituent;  $R^{13}$  is a hydrogen atom, an optionally substituted hydrocarbon group or a metal atom;  $R^{14}$  is a hydrogen atom or a protective group; and the symbol \* is an chiral carbon atom, or a salt thereof, which comprises subjecting an  $\alpha,\beta$ -unsaturated carboxylic acid of the formula (11):



wherein  $R^{11}$  to  $R^{14}$  are each the same as defined above,  
or a salt thereof, to asymmetric hydrogenation in the presence of a transition metal complex,  
provided that when the transition metal complex is rhodium, the protective group represented by  $R^{14}$  in the above formula (11) is a group other than acyl.

**8. (Original)** The process according to claim 7, wherein the transition metal complex is a complex of the metal of Groups 8 to 10 in the periodic table.

**9. (Currently amended)** The process according to claim ~~1 to 3~~, wherein the chiral catalyst is a mixture of a chiral ligand and a transition metal compound.

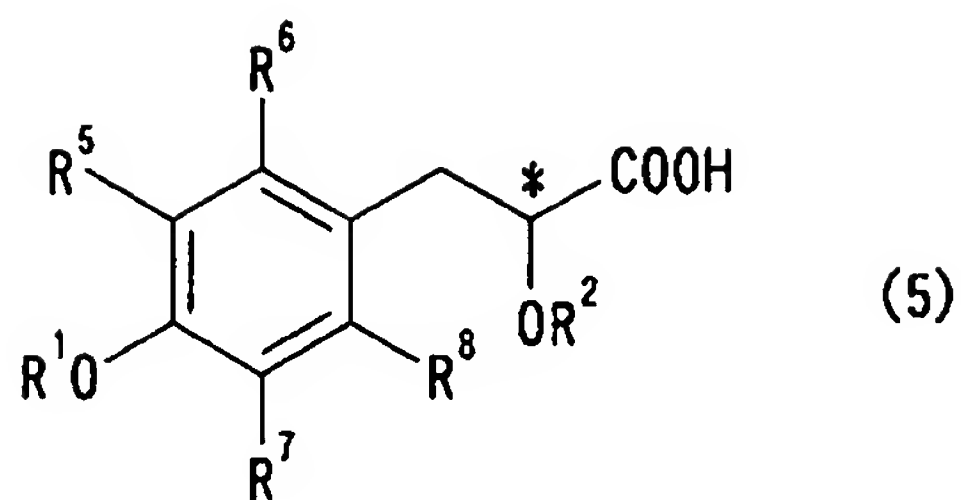
**10. (Currently amended)** The process according to ~~any one of claims 1 to 3~~ claim 1, wherein the optically active phenylpropionic acid of the formula (5) or a salt thereof obtained by the method according to ~~any one of claims 1 to 3~~ claim 1 is crystallized from a solvent.

**11. (Original)** The process according to claim 10, wherein the solvent used for the crystallization is a member selected from the group consisting of hydrocarbons, alcohols, ketones and water, and a mixture thereof.

**12. (Currently amended)** The process according to ~~any one of claims 1 to 3~~ claim 1, wherein the optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6) or a salt thereof obtained by the method according to ~~any one of claims 1 to 3~~ claim 1 is crystallized from a solvent.

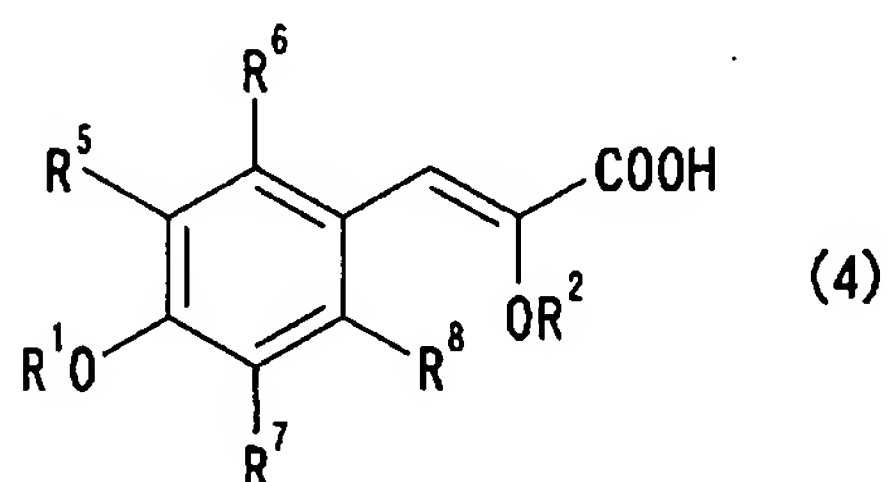
**13. (Original)** The process according to claim 12, wherein the solvent used for the crystallization is a member selected from the group consisting of aromatic hydrocarbons, aliphatic hydrocarbons, alcohols and water, and a mixture thereof.

**14. (Original)** A process for producing an optically active phenylpropionic acid of the formula (5):



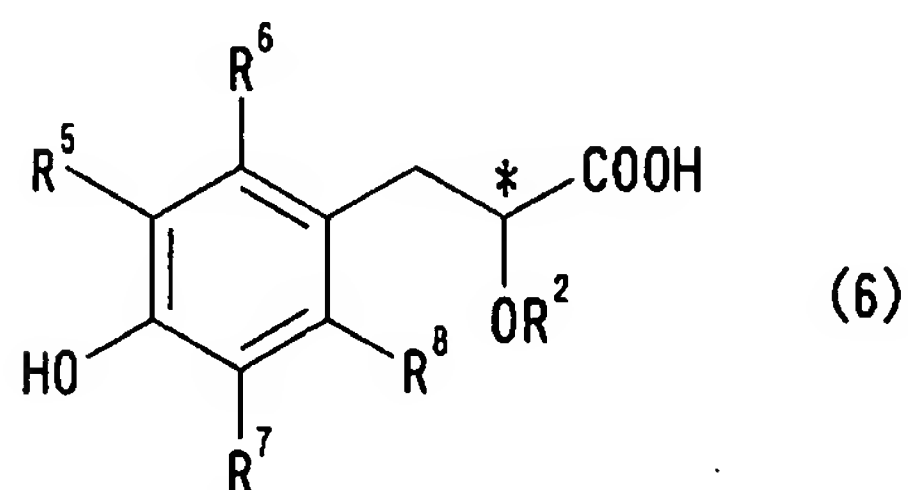
wherein R<sup>1</sup> is a protective group; R<sup>2</sup> is an alkyl group; R<sup>5</sup> to R<sup>8</sup> are each independently a hydrogen atom or a substituent; and the symbol \* is an chiral carbon atom, or a salt thereof

which comprises subjecting a cinnamic acid of the formula (4):

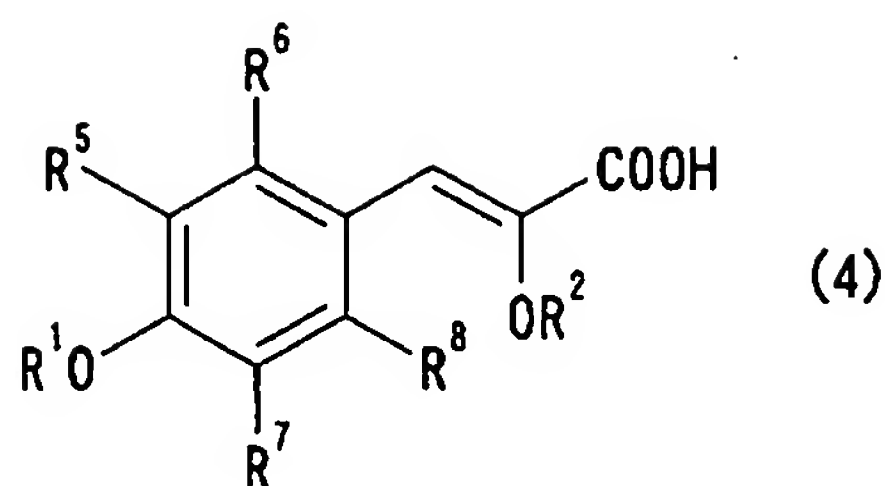


wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>5</sup> to R<sup>8</sup> are each the same as defined above, or a salt thereof, to asymmetric hydrogenation.

**15. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):

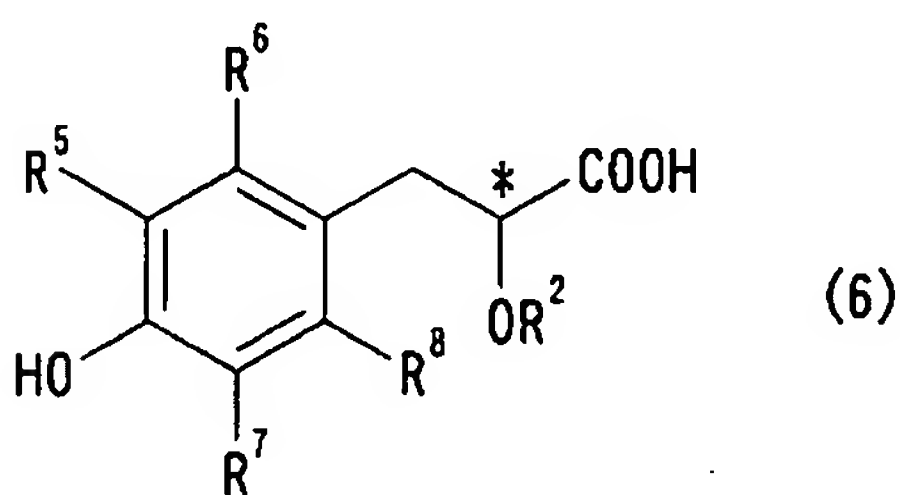


wherein R<sup>2</sup> is an alkyl group; R<sup>5</sup> to R<sup>8</sup> are each independently a hydrogen atom or a substituent; and the symbol \* is a chiral carbon atom, or a salt thereof, which comprises subjecting a cinnamic acid of the formula (4):



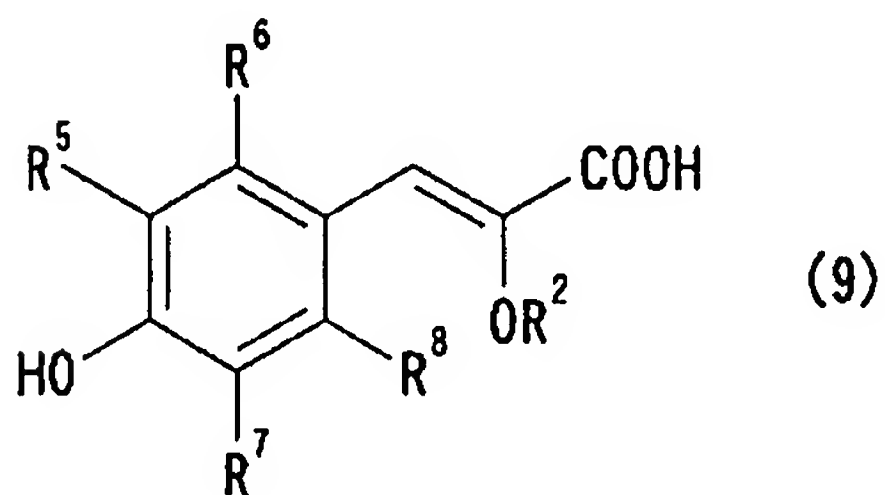
wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>5</sup> to R<sup>8</sup> are each the same as defined above,  
or a salt thereof, to asymmetric hydrogenation.

**16. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



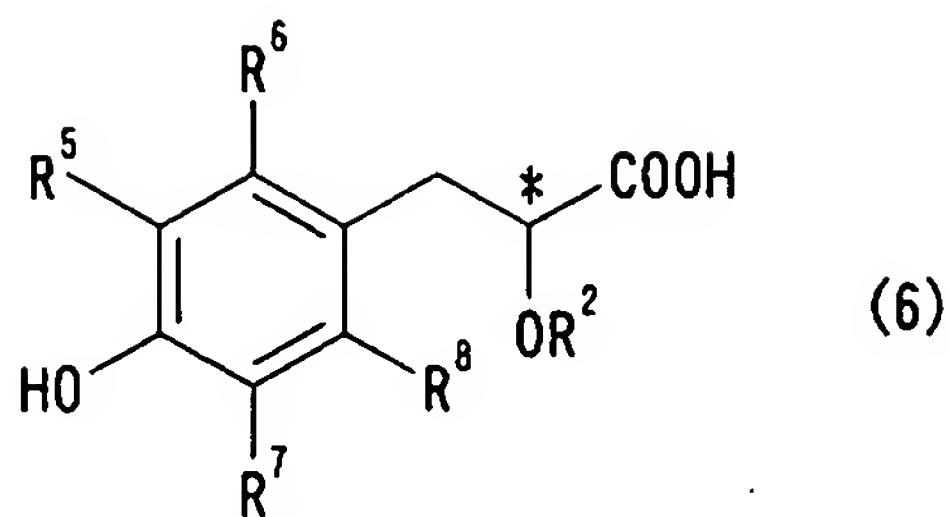
wherein R<sup>2</sup> is an alkyl group; R<sup>5</sup> to R<sup>8</sup> are each independently a hydrogen atom or a substituent;  
and the symbol \* is a chiral carbon atom,  
or a salt thereof,

which comprises subjecting a 4-hydroxycinnamic acid of the formula (9):

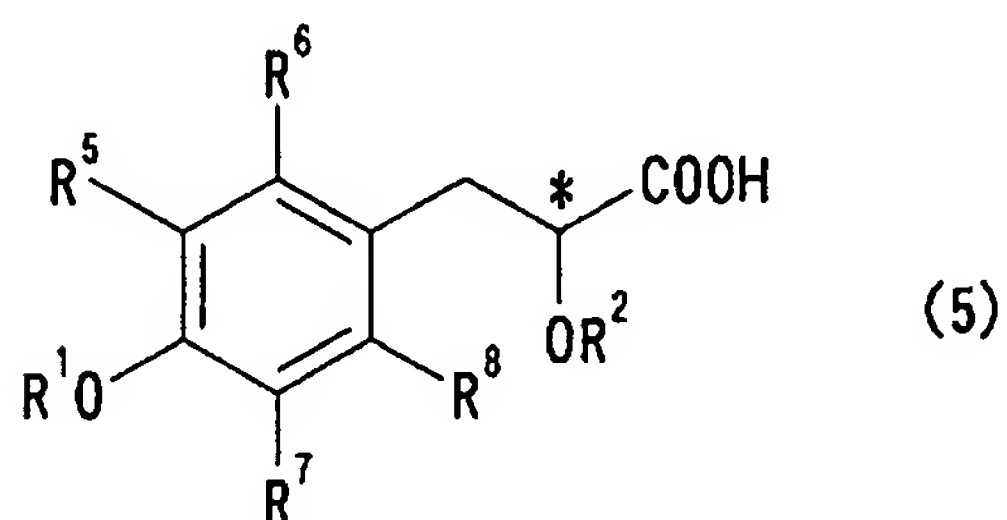


wherein R<sup>2</sup>, and R<sup>5</sup> to R<sup>8</sup> are each the same as defined above,  
or a salt thereof to asymmetric hydrogenation.

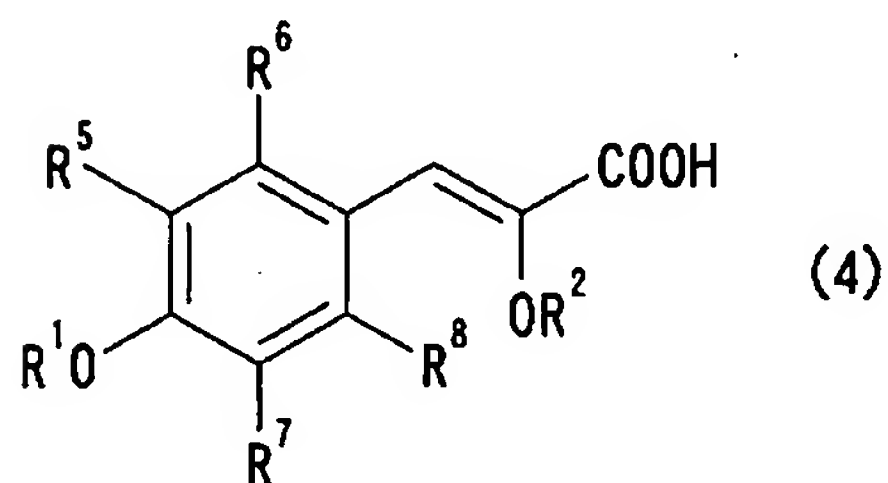
**17. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



wherein  $R^2$  is an alkyl group;  $R^5$  to  $R^8$  are each independently a hydrogen atom or a substituent; and the symbol \* is a chiral carbon atom, or a salt thereof, and an optically active phenylpropionic acid of the formula (5):



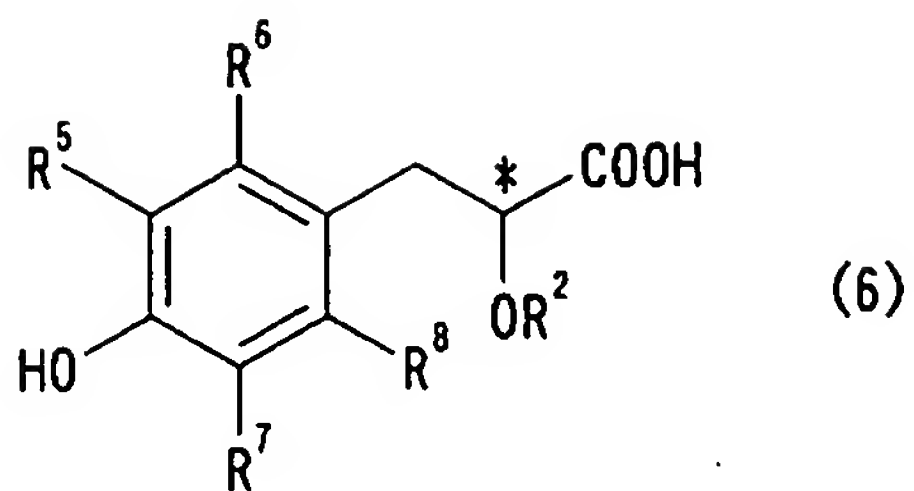
wherein  $R^1$  is a protective group; and  $R^2$ ,  $R^5$  to  $R^8$  and the symbol \* are each the same as defined above, or a salt thereof, which comprises subjecting a cinnamic acid of the formula (4):



wherein  $R^1$ ,  $R^2$ , and  $R^5$  to  $R^8$  are each the same as defined above, or a salt thereof, to asymmetric hydrogenation.

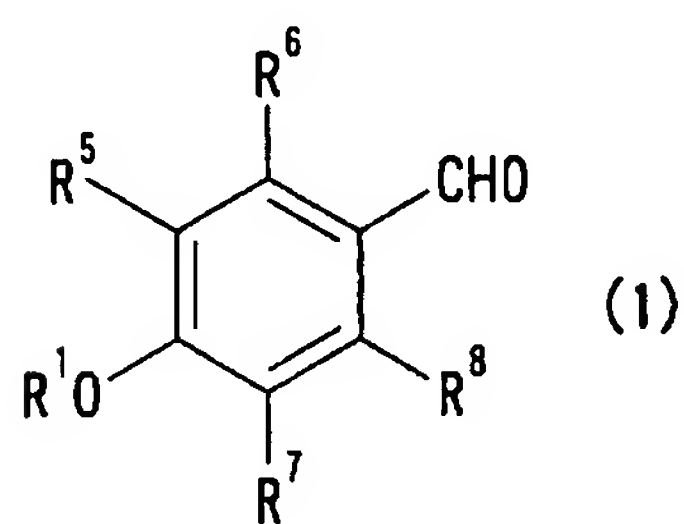
**18. (Original)** A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):





wherein  $R^2$  is an alkyl group,  $R^5$  to  $R^8$  are each independently a hydrogen atom or a substituent;  
and the symbol \* is a chiral carbon atom,

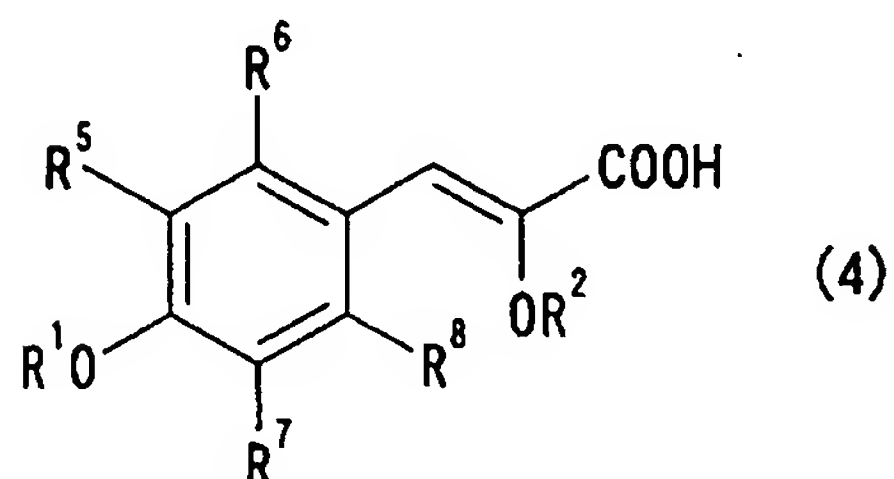
or a salt thereof, which comprises reacting a benzaldehyde of the formula (1):



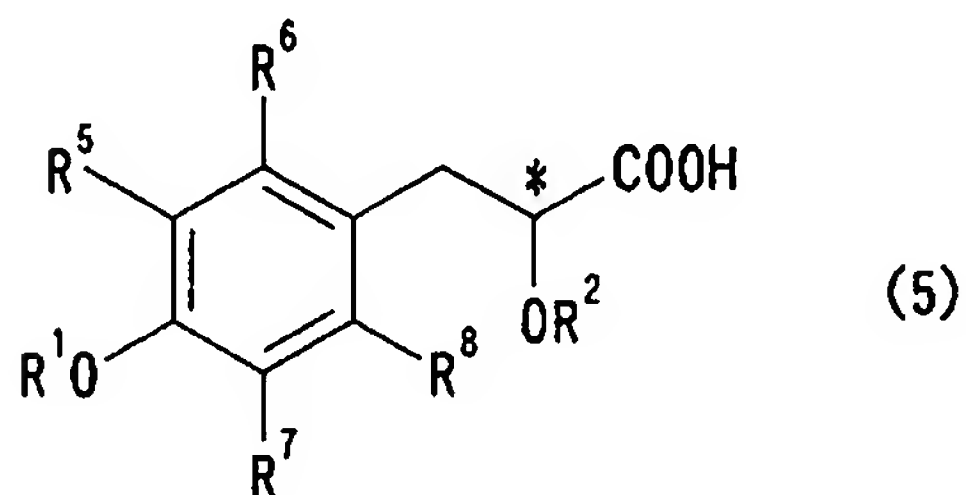
wherein  $R^1$  is a protective group; and  $R^5$  to  $R^8$  are each the same as defined above,  
with a glycolic acid derivative of the formula (2):



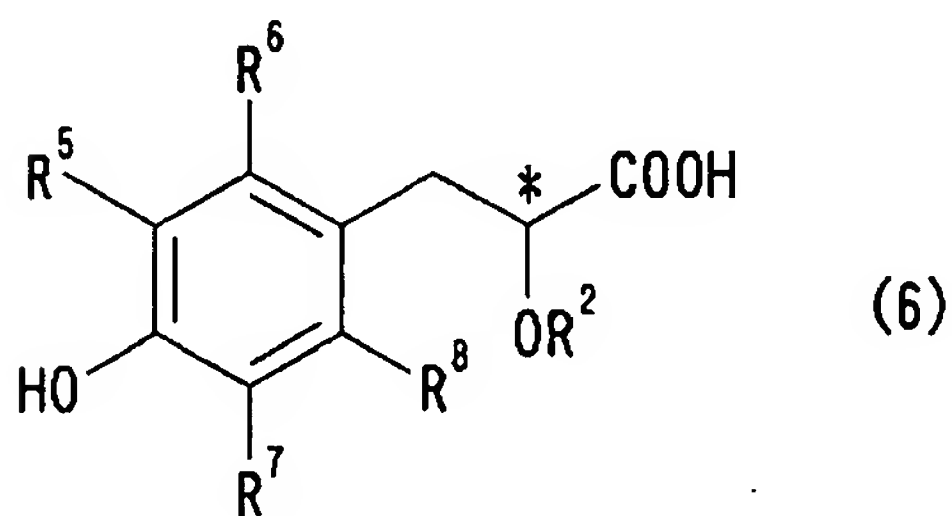
wherein  $R^3$  is a hydrocarbon group, and  $R^2$  is the same as defined above,  
hydrolyzing the resulting product to give a cinnamic acid of the formula (4):



wherein  $R^1$ ,  $R^2$ , and  $R^5$  to  $R^8$  are each the same as defined above,  
or a salt thereof, and subjecting the cinnamic acid (4) or a salt thereof to asymmetric  
hydrogenation to give an optically active phenylpropionic acid of the formula (5):



wherein all the symbols are each the same as defined above,  
or a salt thereof, and an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



wherein all the symbols are each the same as defined above,  
or a salt thereof, followed by deprotection.